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MONOGRAPH

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Gruzdev, Igor' Aleksandrovich; Kadomskaya, Kira Panteleymonovna; Kuchumov, Leonid
Aleksandrovich; Luginskiy, Yakov Natanovich; Portnoy, Marlen Gdalevich; Sokolov,
Nikolay Ivanovich

16

Using analog computers in power systems; methods for analyzing transient processes (Primeneniye analogovykh vychislitel'nykh mashin v energeticheskikh sistemakh; metody issledovaniy perokhodnykh protesessov) Moscow, Izd-vo "Energiya", 1964. 407 p. illus., biblio. 5,000 copies printed.

TOPIC TAGS: analog computer, electromagnetism, electric engineering, electric power engineering, mathematic model, computer circuit, computer application

PURPOSE AND COVERAGE: This book is concorned with the application of analog computers to the study of electromechanical and electromagnetic transient processes in power systems. It presents methods for mathematical modeling, circuits for special-purpose devices used in general-purpose computer studies, and examples of completed investigations. The book is intended for engineers at scientific research and planning institutes, workers at power systems, and students taking advanced courses in electric power and electromechanics.

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KUCHUMOV P. S. — Elektrotraktov. III.. G. vasil'yeva i A. katkovskiy.
Tekhnika — Molodezhi, 1949, No. 8, C. S. 15-17
SO: Letoris' Zhurnal'nykh Statey, Vol. 37, 1949

38161. KUCHUMOV, P. S.

Sel'skoye khozyaystvo Sevetskogo Soyuza - samoye peredovoye, vysokomekhanizirovannoye. Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1949, no. 12, s. 22-26

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

EXCHUMOV, P. Hard core of agricultural industry. Tekh.mol. 21 no.12:1-5 D '5). (MIRA 6:11) 1. Zamestitel' ministra sel'skogo khosyaystva SSSR. (Hachine-tractor stations) (Farm mechanization)

KUCHULOV, P S

EPP. .R92235

HASHINNO-TRANTORNUYE STANTISII INUSTRIAL'NAYA MATERIAL'NO-TEKHNICHESKAYA BAZA KOLKHOZNOGO STROYA. DOGOVORNYYE OTNOSHENIYA MTS S KOLKHOZAMI. MOSKVA, 1954.

43 P. TABLES.

AT HEAD OF TITLE-PAGE: KOM-UNISTICHESKAYA PARTIYA SOVETSKOGO SOYUZA. VYSSHAYA PARTIYNAYA SHKOLA.

KUC HANTEN TEV. Tu.N., kandidat tekhnicheskikh nauk; ALEKSEYEV, I.A., inshener; ASTVATSATUROV, G.G., inshener; BISNOVATYY, S.I., inshener; BONDAREN-KO, A.F., inshener; GURAL'HIK, Ye.L., inshener; GORBUNGV, M.F., inshener; ZIATKOVSKIY, A.P., kandidat tekhnicheskikh nauk; KATTS, H.V., inshener, KITAYEV, A.S., inshener; KOZLOV, A.M., inshener; LEONOV, P.T., inshener; LIVSHITS, L.G., kandidat tekhnicheskikh nauk; LIBERMAN, A.R., inshener; LIHNIK, Ye.M., inzhener; LUKANOV, M.A., inzhener; MOROZOV, S.A., inshener; POGORELYY, I.P., kandidat tekhnicheskikh nauk; PETROV, S.A., kandidat tekhnicheskikh nauk; PYATETSKIY, B.G., inzhener; RABO-CHIY, L.G., kandidat tekhnicheskikh nauk; SELIVANOV, A.I., kandidat tekhnicheskikh nauk; FERBERG, B.S., kandidat tekhnicheskikh nauk; CHISTYAKOV, V.D., inshener; CHUNIKHIN, V.M., inshener; SHIRYAYEV, A.I., inshener; SHCHUPAK, A.D., inshener; KUCHUMOV, P.S., inshener, redaktor; PETROV, S.A.; PESTRYAKOV, A.I., redaktor; Extrapor, A.I., tekhnicheskiy redaktor.

[Handbook of equipment for repairing tractors and agricultural machinery] Spravochnik po oborudovaniju dlia remonta traktorov i sel'akokhosiaistvennykh mashin. Moskva, Gos. izd-vo selkhos. lit-ry, 1954. 646 p. (MLRA 7:11)

(Tractors -- Repairing) (Agricultural machinery -- Maintenance and repair)

。中国,我们是由于中国的主义,但是是一个人的人,但是一个人的人,这个人的人,也不是一个人的人,他们是一个人的人,他们也不是一个人的人,他们就是一个人的人,我们就

KORBUT, L.A.; BUYANOV, A.I.; SVIRSHCHEVSKIY [deceased]; KALASHNIKOV, P.A., redaktor; KUCHUMOV, P.S.; MAUMOV, V.I., redaktor; UDALOV, A.G., tekhnicheskiy redaktor.

[Organizational and technical specifications for tractor work in machine-traktor stations] Organizatsionno-tekhnicheskie pravila proisvodstva traktornykh rabot v mashinno-trakhtornykh stantsiiakh. Isd. 20e, perer. i dop. Moskva, Isd-vo Hinisterstva sel'skogo khoziaistva SSSR, 1955. 336 p. (MIRA 914)

l.Russia (1923- U.S.S.R.) Glavnoye upravleniye mashinno-trakhtornykh stantsii i mekhanisatsii. 2. Zamestitel' ministra sel'skogo khosyaystva SSSR (for Kuchumov). (Machine-tractor stations)

VORONIN, B.G., redaktor; KOJAN, Ye.A., redaktor; KRYLOV, G.A., redaktor; KUCHUMOV, P.S., redaktor; PICHUGIN, N.P., redaktor; VOL'POVSKAYA, D.N., redaktor; PESTRYAKOV, A.I., redaktor; VNSKOVA, Ye.I., tekhnicheskiy redaktor

[Over-all mechanization of agricultural production] Kompleksnaia mekhanizateiia sel'skokhosiaistvennogo proisvodstva. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 615 p. (MLRA 10:4)

(Farm mechanization)

What collective and state farms expect from machinery manufacturers.

Trakt.i sel'khozmash. 31 no.8:1-4 Ag '61. (MIRA 14:7)

1. Predsedatel' Vsesoyuznogo ob"yedineniya Soveta Ministrov SSSR "Soyuzsel'khoztekhnika".

(Agricultural machinery industry)

Formation of the first transfer of the first

KUCHUTOV, P. V.; ZDRILIKO, A. F.

Ukraine - Wheat

Varities of spring wheat for irrigation. Sel. i sem. 20, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassifi ed.

1.	KONOMENKO,	B.M.:	KUCHUMOV .	P.V.
	Trotto iti ziti o g		ILOOUTOTION .	4 6 V P

- 2. USSR (600)
- 4. Corn (Maize)
- 7. Improving the quality of seed corn, B.M. Kononenko, P.V. Kuchumov, Sel. i sem. 20 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

Name: KUCHUMOV, Petr Vasil'yevich

Dissertation: Selection of Spring Wheat for the

Loft Bank Ukraino

Degree: Doc Agr Sci

Affiliation: Inst of Genetics and Selection, Acad

Sci UkssR

Defense Date, Place: 11 Jan 56, Council of All-Union Sci

Ros Inst of Plant Cultivation

Certification Date: 13 Oct 56

Source: MNVO 6/57

Country: USSR M

Category: Cultivated Plants. General Problems.

Abs Jour: RZhBiol., No 11, 1958, 48829

Author : Kuchunov, P.V.

Inst

Title : Method of Hybridization in Selection Hork.

Orig Pub: Selektsiya i semenovolstvo, 1956, No 4, 17-21

Abstract: This is a brief review of literature on the hybridi-

zation of plants.

Card : 1/1

M-5

USSR / General Biology. Genetics. Plant Genetics.

B-3

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 61944

Authors : Kuchumov, P. V.; Kovalevskaya, N. I.

Inst : University of Khar'kov

Title : Directed Raising of Spring Wheat Hybrides

Orig Pub : V. sb.; Vopr. motodiki selektsii pshenitsy i kukurusy,

Khar'kov. Un-t, 1957, 63-71

Abstract

Experiments were carried out on raising hybrides of hard-shelled and bearded wheat in rich and poor conditions. As F₁ wheat was raised in rich conditions, traits of hard-shelled wheat (wider, unbending ears) were predominant, whereas when it was raised in poor conditions, bearded wheat characteristics provailed (narrow, hreakable ears). In F₂, liberation of parent varieties was clearly noticeable. Here, 78.4 percent of new wheat forms belonged to the hard-shelled wheat variety type, if conditions were favorable. Yet, if raising

Card 1/2

KUCHUMCY P.V.

US\$R/Cultivated Plants. Grains.

lí

Abs Jour : Rof Zhur-Biol., No 15, 1950, 63005

: Kuchumov, P. V., Vatulya, Ye. Ye. Author

Inst

: Minter Wheat of Gordeiform 46. Title

Orig Pub : Selektsiya i semenovodstvo, 1957, No 4, 39-41

Abstract : A description of a new variety which has just been submitted for state testing is given here. been submitted for state testing is given here This variety was obtained by inter-species hybridization of Tr. turgidum x Tr. diccocum. The prospects are pointed out of using Tr. diccocum as a paternal plant by crossing it with cultivated species. Goodefform 46 gave the highest yields in the irrigated regions of southern Ukraine, and in state testing it exceeded many hard wheat varieties in yields.

Card : 1/2

USER/Cultivated Plants. Garins.

Abs Jour : Ref Zhur-Biol., No 15, 1950, 68085

When tested in the southern oblast's of the USSR, it proved resistant to high temperatures; in Checkov and Eastern Kazakhstan oblast's, it yielded more than 40 centuers per hectare. — I. E. Zaikina

Card : 2/2

11

:1

Country : USSR

Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., No 11, 1958, No 48995

: Kuchumov, P.V.; K valevskaya, N.I. Author

: Ukrainian inst. of Plant Cultivation, Selection Inst

and Genutics.

: Sudan Grass and Sorghun-Sudan Grass Hybrid With Title

Irrigation

Orig Pub: Nauka i peredov. opyt v s. kh., 1957, No 7, 34

Abstract: Ukrainian Institute of Plant Growing, Selection

and of Conetics tried Sudan grass and Sorghum-Sudan Grass hybrid No. 5 in 1955 and in 1956 near Kherson. Hybrid No. 5 was obtained by crossing Sudan grass No. 876 with sugar sorghum Ranniy yantar'. In both

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Country : USSR

Category: Cultivated Plants. Fodders.

The Jour: RZhBiol., No 11, 1958, No 48995

years 3 nowings and aftermath were secured each year. The average yield of the green bulk of Sudan grass for two years with 3 mowings a year was 746 cwt/ha. The average hay yield was 172 cwt/ha. The average yield of hybrid No. 5 - 810 cwt/ha. of green bulk or 195 cwt/ha. of hay. --N.I. Popova

: 2/2 Card

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VLASYUK, P.A., skademik, otv.red.; YUR'YEV, V.Ya., skademik, zom. otv.
red.; HUZANOV, I.F., skademik, red.; DANILENKO, I.A., red.;
DELCHE, L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor
sel'skokhoz.nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G.,
kand.sel'skokhoz.nauk, red.; TKACHENKO, P.A., kand.sel'skokhoz.
nauk, red.; CHIZHENKO, I.A., kand.skonom.nauk, red.; LESOVICHENKO,
Yo.V., red.; MANOYLO, Z.T., tekhn.red.

[Vegotables and potatoes; works of scientific session, No.2]
Ovoshchnye kul'tury i kartofel; trudy nauchnoi sessii, vypusk 2.
Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk, 1960. 132 p.
(MIRA 14:1)

1. Ukreinskiy ordena Lenina nauchno-issledovatel skiy institut rastoniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vsesoyuznoy akademii sel skokhozyaystvennykh nauk imeni V.I.Lenina (for Danilenko). 3. Chlen-korrespondent AN USSR (for Strona). (Vegetable gardening) (Potatoes)

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VLASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam.otv.red.;

BUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELONE,

L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.

nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.

nauk, red.; TKACHENKO, F.A., kand.sel'skokhoz.nauk, red.;

CHIZHENKO, I.A., kand.skonom.nauk, red.; HLANINA, L.F., red.;

VIDONYAK, A.P., khud.-tekhn.red.

[Problems in improving the quality of agricultural products; proceedings of the scientific session] Voprosy uluchsheniis kachestva sel'akokhoziaistvennoi produktsii; trudy nauchnoi sessii.

Kiev, Izd-vo Ukrainskoi Akad.sel'khos.nauk. No.4. [Feeds and livestock products] Korma i produkty zhivotnovodstva. 1960. 143 p.

(MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel skiy institut
rasteniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vsesoyuznoy akademii sel skokhosyaystvennykh nauk imeni V.I.Lenina i
Ukrainskoy akademii sel skokhosyaystvennykh nauk; Nauchno-issledovatel skiy institut zhivotnovodstva Lesostepi i Poles ys USSR (for
Danilenko). 3. Chlen-korrespondent AN USSR (for Polyakov).
4. Ukrainskiy ordena Lenina nauchno-issledovatel skiy institut rasteniyevodstva, selektsii i genetiki (for Strona).
(Feeds) (Stock and stockbreeding)

ACC NR: AP6028192

SOURCE CODE: UR/0032/66/032/006/0704/0707

AUTHOR: Korovin, Yu. I.; Kuchunov, V. A.; Pronin, I. S.

ORG: none

TITIE: Application of the atomic absorption method for determining chromium and niobium in aluminum-chromium-nickel alloys

SOURCE: Zavodskaya laboratoriya, v. 32, no. 6, 1966, 704-707

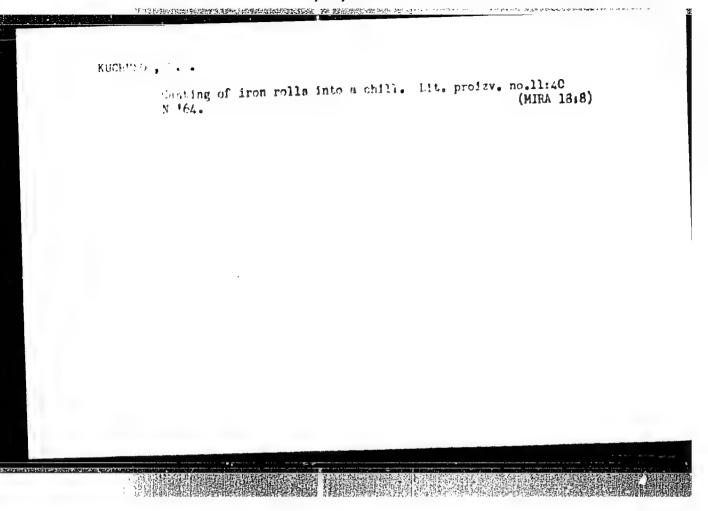
TOPIC TAGS: quantitative analysis, aluminum containing alloy, chromium containing alloy, nickel containing alloy, nicbium

ABSTRACT: Provious determinations have been made of the sensitivity of the determination of chromium, nickel, copper, and zinc in aqueous solution. Experiments have also shown that the sensitivity of the determination of these elements in an exygen-hydrogen flame differs only slightly from data obtained in an air-acetylene flame. The sensitivity of the determination of these elements by the atomic absorption method can vary strongly as a function of the composition of the solution under investigation, as a result of a decrease in concentration, in the flame, of atoms capable of absorption. The present article reports an investigation of the effect of nickel, copper, and molybdenum on the determination of chromium, and of the effect of chromium, copper, and molybdenum on the determination of nickel in aluminum alloys.

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Card 2/2						



GUINFIKO, Ivan Mefod'yavich; KUCHUMOV, Yavganiy Vladimirovich; PAVLOVSKIY, 1.Ye., red.

[Automatic loudspeaker telephone using transistors] Gromko-govoriashchii telefor-avtomat na poluprovodnikakh. Lenin-grad, 1965. 48 p. (MitA 18:7)

MODODET, A.K.: EVANOVA, O.M.; KUCHUMOVA, A.N.

Some carbamide-containing complex thorium halives. D. 21. AN SCSR 164 no.4:820-821 0 165. (MIRA 18:10)

1. Thatitut obshehey i neorga: Icheskoy khimit im. N.S. Kurnakova AN SSUR. Submitted March 24, 1965.

MORGORIN, A. C., BALAKAYEPA, C.A., RUCHIMOTA, A.N.

Tropicus ambiophosphatas. Salis AN SSSR 165 mc. pt. 73-574 N 165.
(V. R. 18: L1)

To Institut obshipp i neorganicheskey khimii in. Nos. Kurnakera AN SSSR. Submitted April 26, 1965.

HODIOHOV, V.M.; RUCHUMOVA, K.I., redaktor; KOHUXEV, W.W. tekhnicheskiy redaktor.

[Collection of alighment charts for radio engineering] Sbornik nomograms po radiotekhnike; Isd. 2-e, perer. i dop. Moskva, Isd-vo "Sovetskoe radio," 1955. 163 p., 112 nomograms. (MLRA 8:8)

(Badio circuits) (Nomography (Mathematics))

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CIA-RDP86-00513R000827110016-5 "APPROVED FOR RELEASE: 06/19/2000

RUCHUMERA, K. I

Call Nr: AF 1141777

AUTHOR:

Konev, Yu.I.

TITLE:

Transistors in Automatic Control Systems (Kristalli-

cheskiye triody v ustroystvakh avtomaticheskogo

upravleniya)

PUB.DATA:

Izdatel'stvo "Sovetskoye radio", Moscow, 1957, 160 pp.,

number of copies not given ORIG.AGENCY: None given

STREET, STREET,

KDITORS:

Kuchumova, K.I.; Tech.Ed.: Shchukin, A.I.,

Koruzev, N.N.

PURPOSE:

The book is written for engineers working in the fields of electronics and electric automation and for students

in advanced courses in electronics and radio engineering.

Card 1/7

Call Nr: AF 1141777

Transistors in Automatic Control Systems (Cont.)

COVERAGE:

The book presents the fundamentals and characteristic properties of the application of junction type transistors in amplifiers of automatic control systems. The operation of transistors in a-c emplifiers, in amplifiers of the average current and in phase-sensitive amplifying circuits is investigated. An engineering method of designing certain transistorized circuits is presented. The author mentions the names of Sotskov, B.S., Doctor of Tech.Sc., Fedotov, Ya.A. and Shchukin, A.I., as having given him several valuable observations. Several types of transistors of Soviet production are discussed in the text. There are 34 references, 19 of which are Soviet, 7 American and 8 translations into Russian.

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SURBOTINA, G.V., kand.tekhn.nauk; TREFILOVA. I.S., kand.tekhn.nauk; ROZEMBLAT, M.A., prof., doktor tekhn.nauk, red.; KUCHUMOVA, K.I., red.; SMUROV, B.V., tekhn.red.

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[Hagnetic elements in automatic control, telemechanics, and computers; annotated list of literature for the year 1957]

Hagnitnye elementy avtomatiki, telemekhaniki i vychislitel'noi tekhniki; annotirovannyi ukazatel' literatury za 1957 god.

Moskva, Izd-vo "Sovetskoe radio." No.1. 1959. 68 p.

(MIRA 1219)

(Electric engineering)

SYTINA, H.V.; KUCHUMOVA, K.I., red.; SMUROV, B.V., tekhn.red.

[Automatic control in the testing of electronic radio equipment; brief survey of foreign literature] Avtomatizatsiia ispytanii radioelektronnogo oborudovaniia; kratkii obsor sarubeshnoi pechati. Moskva, Izd-vo "Sovetskoe radio," 1959. 93 p. (MIRA 13:4)

(Automatic control)

(United States--Electronic equipment and supplies--Testing)

KONEV, Yu.I.; SOTSKIY, B.S., prof., doktor tekhn.nauk, retsenzent; KUCHUMOVA, K.I., red.; SHCHUKIN, A.I., red.; SMUROV, B.V., tekhn.red.

[Application of transistors in sutomatic control] Poluprovodnikovye triody v sytomatika. Moskva, Izd-vo "Sovatskoe radio," 1960. 446 p. (Transistors) (Automatic control)

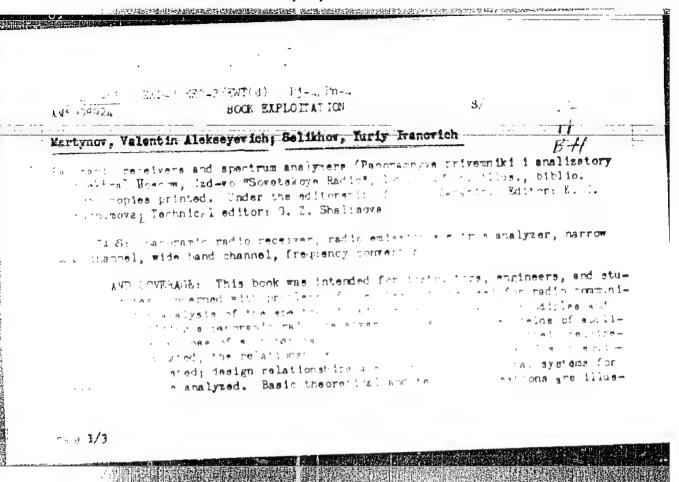
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DROZDOV, Yevgoniy Afanas yevich; FYATIERATOV, Aleksandr Petrovich; KUCHUMOVA, K.I., red.; BELYAYEVA, V.V., tekhn. red.

[Automatic conversion and coding of information] Avtomaticheskoe preobrazovanie i kodirovanie informatsii. Moskva, Sovetskoe radio, 1964. 543 p. (MIRA 17:3)

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trated on examples of existing apparatus. Recommendations are give, concerning the
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Literature - 405
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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

RODIONOV, V.M.; HENENSON, L.S., red.; KUCHUMOVA, K.I., red.

[Transmission lines and superhigh frequency antennas; collection of nomograms] Linii peredachi i antenny sverkhvysokikh chastot; sbornik nomogramm. Moskva, Sovetskoe radio, 1965. 118 p. (MIRA 18:7)

SECENOV, Kong antin Aleksandrovich; EUCHUMOVA, K.I., red.

[Radio receiving and amplifying systems] Radiopriemrye
i usliitel rye ustroistva. Moskva, Sovotskoe radio, 1965.
646 p.

(MHA 18:10)

3 (7) AUTHORS:

Gal'perin, B. M., Kuchumova, L. S.

807/50-59-8-5/19

TITLE:

On the Influence of Cloudiness on the Radiation of the Atmosphere (O vliyanii oblachnosti na izlucheniye atmosfery)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 8, pp 19 - 24 (USSR)

ABSTRACT:

A weak point in the climatological calculations of longwave radiation is the consideration of cloudiness. The consideration is done by the formulas $P_n = P_0(1 + Kn^\alpha)$ and $E_n = E_0(1 - Cn^\alpha)$. P_n is the radiation of the atmosphere, E_n the effective radiation of the black body (at the corresponding air temperature) in the presence of clouds, P_0 and E_0 the same values if there are no clouds, P_0 and P_0 and P_0 are the coefficients characterizing the influence of various clouds on the radiation of the atmosphere and the effective radiation. The values for K for clouds in different altitudes under any meteorological conditions are obtained here. As in the papers (Refs 5, 9, 13), the authors are also here of the opinion that physically and methodically the introduction of a correction for the cloud-

iness with respect to the radiation of the atmosphere is more

Card 1/4

On the Influence of Cloudiness on the Radiation of SOV/50-59-8-5/19 the Atmosphere

justified than one with respect to the effective radiation. For this purpose, the radiation of the atmosphere in a cloudless sky (P) and with full cloudiness (Pn) were computed on the levels of 0.5, 1.0, 2.0 and 4.0 km in 23 points of different areas on the eastern and western hemispheres from 21 to 78° northern latitude after computing the aeroclimatic data of the vertical distribution of temperature, air moisture and atmospheric pressure, The computations were carried out according to the radiation diagram by F. N. Shekhter (Ref 10) by the method described in the paper (Ref 2). The students of the LGMI V. M. Artom'yeva, T. A. Belik, N. S. Nakhamchina et al. took part in these time-consuming investigations. In the computation of P it was assumed that the continuous cloud cover in all mentioned altitudes radiates like a black body. K was computed $\frac{P_n - P_o}{P_o}$ for the 4 levels mentioned. These coefficients do not characterize the absolute but the relative influence of the cloud cover on the radiation of the atmosphere. The computa-

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On the Influence of Cloudiness on the Radiation of SOV/50-59-8-5/19 the Atmosphere

tions showed that everywhere and in all altitudes an annual course of K with a maximum in winter and a minimum in summer can be observed; from summer until winter, K can sometimes increase by more than double its value. In no season, however, is there a clear dependence of the coefficient K on latitude. The results put forward here show that the use of the mean annual values, or even the mean seasonal values, of K in the computation of atmospheric radiation in the single months can lead, in various climatic regions, to big errors in the determination of the longwave radiation gain. The diagrams show the dependence of the difference Pn - Po on the effective absorbing atmospheric mass (M) at different temperatures (t) of the cloud layer, the dependence of the coefficient K_1 (at a cloud height of $1\,\mathrm{km}$) on M, the dependence of the coefficient $K_{\frac{1}{2}}$ on the temperature T_1 at the base of cloud, and the dependence of K_1 on the air moisture near the ground e_o . Table 1 shows the K-values (in %) taken from the correlation curves for the 4 levels mentioned

Card 3/4

On the Influence of Cloudiness on the Radiation of 807/50-59-8-5/19 the Atmosphere

at different e₀. These data can be used to obtain the mean K-values according to the known mean monthly air moisture. There are 6 figures, 1 table, and 14 references, 12 of which are Soviet.

Card 4/4

Enchances, No. 1. "Un the activity of ab. Sec. chloride forth a non-rid of to harbive verify," Such, byalleten' lenters, god. an-rails. Midwey, br. 2c, 1917, p. 33-23

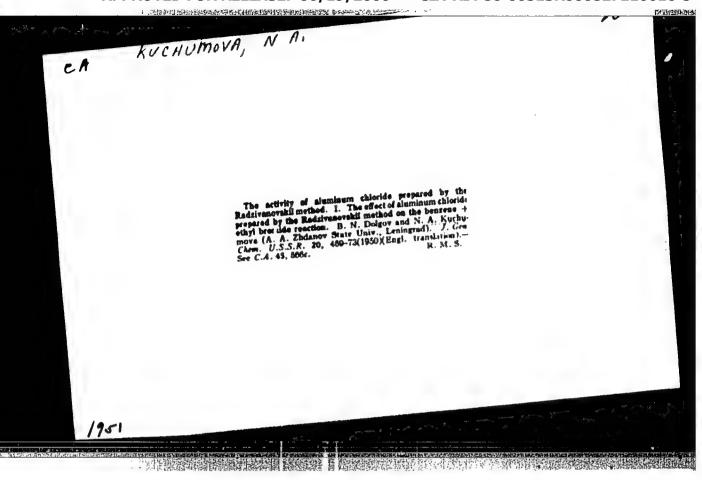
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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

THE ACTIVITY OF ALIMINUM CHLORIDE PREPARED BY THE METHOD OF RADILY.ECTRIF.

I. ACTI F OF ALIMINUM CHLORIDE PREPAR "ACCORDING TO RADIVAROUSKI! IN THE REACTION OF FINING VIEW VIEW STREET PROMIDE. B. M. Dolgov and M. A. Ruchusove (A. A. Zhdarov State Univ., Leningred). Thur. Obshehel Khim. (J. Gen. Chen.)

20, 445-0(1950).—ALCI3 prepd. according to Radrivinovski! [Ser. 28, 1135
01895] from Al and HCl is an active Freedel-Crafts catalyst. In the C.H. MBF reaction with 75 catalyst a 735 mied of Etph is attained at 10-10°. C.H. (200 g.) and 4 g. Al shrvings treated with dry HCl until a brown corting covered the crtalyst, then with 1 0 g. Hiff, and let stand 48 hrs. at 10-12°, follows by refluxing 7 hrs., give 735 RtPh, b. 132-4°, 4.00.8703, mb 1.49:0, 10-185 Etg. H., mostly the m-isomer with a twace of p-isomer (epd. according to Vosvinkel, Ber. 22, 31t (1895)], and 2.55 1.3,5-Et. C.H., b. 212-14°. Hitratim of Etph (25 g.) by addm. in 4 hrs. to 70.5 g. HMO3 (d. 1.5) and 77 g. H.SQ. (d. 1186) in the cold, followed by heating to 135°, give mainly the 2-nitro deriv., b. 274-7°, d. 0.8805, mb 1.4:97. Similarly m-Hic.H. gave the 7, 4, 6-trimitro deriv., m. 60-3°, while Etg. (R.) yeilded the 2, 4,6-trimitro deriv., m. 108. Some 25 of higher alkylate with obtained. Increase of the disht deriv. to 10% and a rise of the tri-Et deriv. to 8-10%. The yield was unchanged in 4.5-15.0 hrs. readtim periods with dry HCl in the initial step, but the condensation reaction reached a const. yield in 48 hrs.; shorter periods cut the yield severely. G. M. Koselepoff



ARTYUKHOVA, N.N.; BREMER, L.F.; GRIGORENKO, A.S.; IFATOVA, M.S.;

KARHYSHEVA, T.D.; KOZLOV, V.M. KOLYSHEVA, L.I.;

KUCHUMOVA, N.A.; MAKAROVA, M Ye.; PUCHKOVA, N.A.;

SEKIRINA, Ye.T.; SOKOLOVA, T.S.; STATIYEVA, V.F.;

TYUNYAYEVA, V.V.; KHRAMTSOVA, A.A.; CHURAYEVA, V.V.;

FOKIN, D.F., red.

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[Foreign trade of the U.S.S.R. for 1959-1963; a statistical abstract] Vneshniaia torgovlia Soiuza SSR za 1959-1963 gody; statisticheskiy sbornik. Moskva, Vneshtorgizdat, 1965. 483 p. (MIRA 18:7)

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KUCHUMCVA, Ye.C.

Resynchronization of large turbogenerators with complex automatic control systems. Trudy LFI no.242:118-124 165. (MERA 18:8)

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Certain optical and physical properties of the flame cone in a basic, oxygen-blown converter (in the visible part of the radiation spectrum) and their use to control the process. Izv. vys. ucheb. zav.; chern. met. 8 no.5:21-28 '65.

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1. Moskovskiy institut stali i splavov.

BARTASHEVICH, A.A.; KUCHUR, Ye.S.; PEVZNER, E.D.

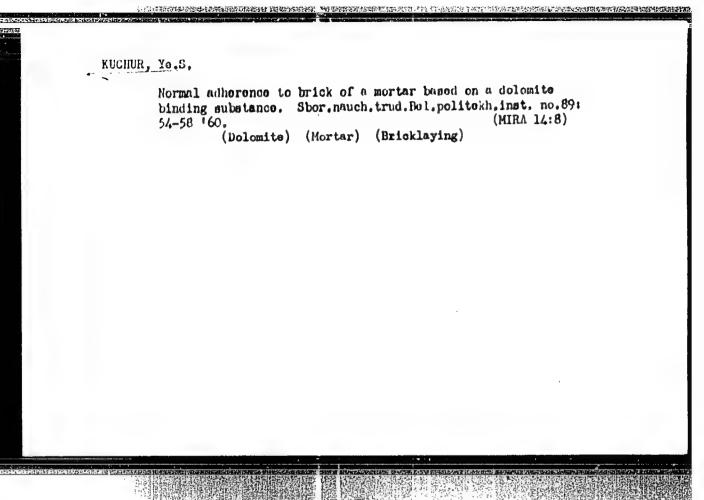
Reinforced concrete loads for wheeled tractors. Trakt. i sel-khozmash. 33 no.7:43 Jl '63. (MIRA 16:11)

1. Belorusakiy politekhnicheskiy institut.

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[Equipment and devices for assembling structural elements] Oborudovanie i prisposoblaniia dlia montazha stroitel'nykh konstruktsii.
Minsk, Redaktsionno-izdatel'skii otdel BPI im. I.V.Stalina, 1960.
48 p. (MRA 14:6)

(Building—Tools and implements)
(Precast concrete construction)



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1. Svarshchik Darnitskogo xavoda (Welding) (Hard facing)

KUCHURA, T.L., aspirant Effectiveness of disinfectants against the mold of gorminating corn seeds. Zashch. rast. ot vred. i bol. 6 no.5:18-19 Ny '61. (MIPA 15:6) 1. Vsusoyuzny; institut kıkuruzy, Dnepropotrovsk. (Cern (Naizo)—Diseases and pests) (Molds (Botany)) (Seeds—Disinfection)

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Novye gruzovye tarigy i ikh rol'v ratsionalizatsii perevozok. The new freight rates and their role in raising the transit efficiency. (Sots. transport, 1939, no. 6, p. 18-23).

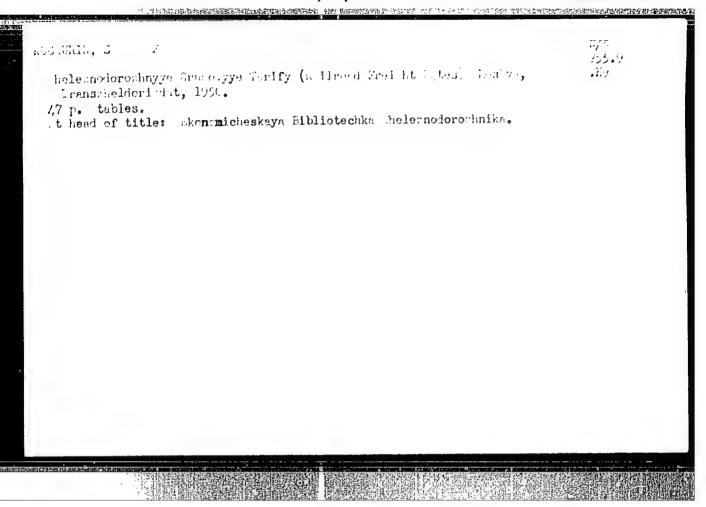
Discusses new rates set by SNK decree of March 1939 and put into effect on April 1929. Table showing reduction (%) in rates as distance increases for 10 commodities(p. 18).

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BENESHEVICH, I.I., konditet telegrateratur to to bushe to H., bemildet tekhnicheskikh navk; FTKOV, Towis, makener: VLATOV, I I., kendidat tekhnicheskikh mauk; GRITSSYGKIY, M Ye., lozhener; GRUBER, L.O., inzhener OURVICH, V.O., inzhener; DAVY: OV. V.N., inzhener; YER-SHOV, I.H., kendidat tekhnicheskikh mauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I i., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.F., dotaent, LAFUHIH, H.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhenor; OSKOLKOV, K.H., inzhener; OKHOSHIH, L.I., inzhener; PARFENOV, X.A., dotsent, Fundidat tekhnicheskikh nauk; FERTSOVSKIY, L.H., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener: ROSSITZVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat takhni chankiku nauky HYABKOV, A.Ya., prefessor [deceased] TAGER, S & .. kandi is c tekhnicheskikh mauk: KHAZEN, H.M., professor, doktor tekhnicheskiko mauk; CiERNYSHEV, H.A., doktor tokhnicheskikh nauk; MBIH, L Ye., professor, dektor tekhnicheskikh nauk; YUREMEV, B.H., dotsent; AKSENOV, I. 7a., dotsent, kandidat tekhnicheskikh neuk; AREHANGEL SKIY, A.C., inchener; BARTEREV, P.V., professor, doktor tekhnichashika mash; BSRNGARD, K.A., kandidat tekhnicheskikh mank; HOROVOT, H.Ye., dotaent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inchener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHMENC, N.G., detennt, kandidat etonomicheskikh nauk; (Continued on next card)

。 [4] 1977年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年,1978年

WASIGMEN, I.T. (confirmed) Confirmaty VASIGMEN, V.F., CONCHARDS, hold, and hearty DERIBAS

VASIGNYEY, V.F. GORDHAHON, held inches to DERIHAS, A T., incheser; DOBROSEL'SKIY, K.M., dossens, kandidas tekhnioneskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; TMYIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINGY, S. V., professor, doktor tekhnicheskikh nauk; ZARKLLO, M.L., kandidat teknnicheskikh pack; IL'IN, K.P., kandidat tekhnicheskiki sank MARWENIKOV, A D., kundidat tekhnichaskikh nauk; KAPLUM, F.Sh., inchanar - KAHCHIN, H.D.; KOCHEEV, J.P., professor, doktor tekhnicheskikh nauk; KOGAH, L.A., kandidat tekhnicheskikh nauk; KUGRURIN, S.F., inchener; LEVASHOV, A.D., inchener; MAKSIMOVICH. B.H., detuent, kandilat tekhnicheskikh anak; MARTYNOV, M.S., inthener; MEDELY, O.M., inthener; NIKITIN, V.D., professor, kardidat tekhnicheskikh nauk; PADNYA, V A., inchenor; PANTELMYEV, P.I., kandidat tekhnicheskikh nauk; FNTROV, A.P., professor, doktor tekhnicheskikh nauk, POYCHCZHRYKO, V.V., professor, doktor tekhnicheskikh nauk; PISKARSV, I.I., deteent, Ferdidst wekhnicheskikh nauk; SEROBYEV. Ta.S., kandidat tekhnichenkith neuk; SIMONOV, K.S., kandidat tekhnichekikh nauk; SIMAHOVSKIY, H A., incheser; SUYAZOV, I.G., inchenera TAIDAYEV, P.Ya., inzherer; TIKEOROV, K.K., kerdidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhenr; USFANSKIY, V.K., inzhener; PEL'DMAN, B.D., kandidat tekhnichashikh nauk; FERAPONTOV, G.V., inzhemer; KHOKHLOV, L.P., inzhent: CUKRNOMORDIK, J. I., professor, dektor tekhnicheakikh nauk; SHAMAYSV, M.F., incommer; SHAFIRKIN, B.I., inzhener: YAKUSHIN, S. I., inzhener- GRANOVSKIY, P.d., redaktor: TISHCHENKO, A.I., redaktor : ISATEV, 1 P., dotsent, kandidat teknnicheskikh nauk, redaktor - KLIMOV, V.J. donsene kamilidat tekhnicheskikh (Gonth) and on rest card)

BENESHBVIGH, I.L. (craving) Ord ... arrhener, recoktor. KALIGIA, V.K., inthener, redaktor; MARKOV, K.J., arrhener, redaktor; SIDGOV, H.I., inthener, redaktor; SIDGOV, V.H., professor, redaktor; SIDGOV, H.I., inthener, redaktor; SIDGOV, R.I., and the redaktor; RONBL', R.I., attentionary reliktive [Technical reference manual for inthrond regimeers] Tekhnicheskii apravochnik zheleznode voznaika. Hrikva. Cos. transp.zhel-dor. ind-vo. Vol.10. [Electric power supply for railronds] Energosnahzhenie sheleznykh dorog. Otvared. tora K.G. Markharia. 1056. 1080 p. Vol.13.

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1. Chlen-korrespondent Akademii nauk SESE (for Potrov)

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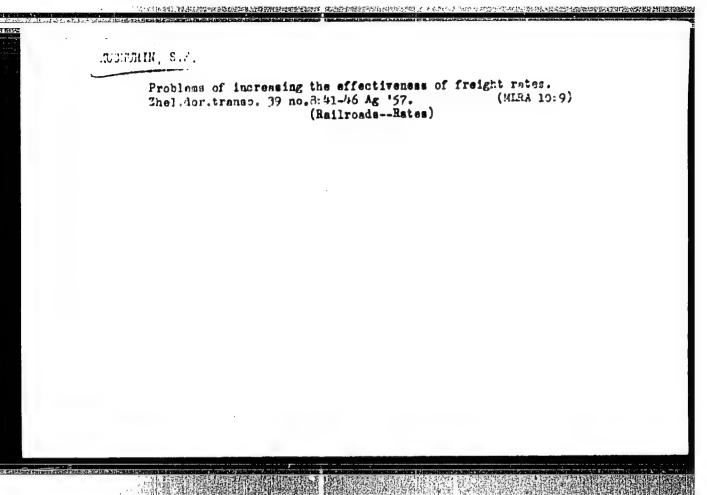
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KUCHURIN, SEMEN FEDOROVICH

N/5 755.9 .K91

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S.F.; LIN'KOV, M.V.; MULYUKIN, F.P.; NEDOPEKIN, G.K., inzh.; PUZYNYA,
I.Ye., inzh.; kaykhen, G.Kh., inzh.; Thubachev, T.Ye., inzh.; TYVAK—
CHUK, D.F., inzh.; UMBLIYA, V.E., kand. ekon. nauk; MHUKELCY, N.F., dots.
kand. ekon. nauk; CHUDOV, A.S., prof., doktor ekon. nauk; ERLIKE, V.S.,
inzh.; IVLIYEV, Ivan Vasil'yevich, red.; KRISHTAL', L.I., red.; KEITROV,
P.A., tekhn. red.

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RYABOVA, A.V., prepodavatel; AL'MENOVA, A.F., prepodavatel; EUCHUSIEVA,

I.I., prepodavatel; PAVLOVSKAYA, T.M., prepodavatel; OZEROVA,

A.G., red.; SHCHKEBAKOVA, G.V., red.; VLADIHIRTSEV, V.P., red.

1zd-va; KHUSNUTDINOV, Sh.S., tekhn.red.; GALKINA, V.H., tekhn.red.

中,也是我们的政治经验的政策是使用是利用的现在。"她看到他是是是现代的对象中心,这个

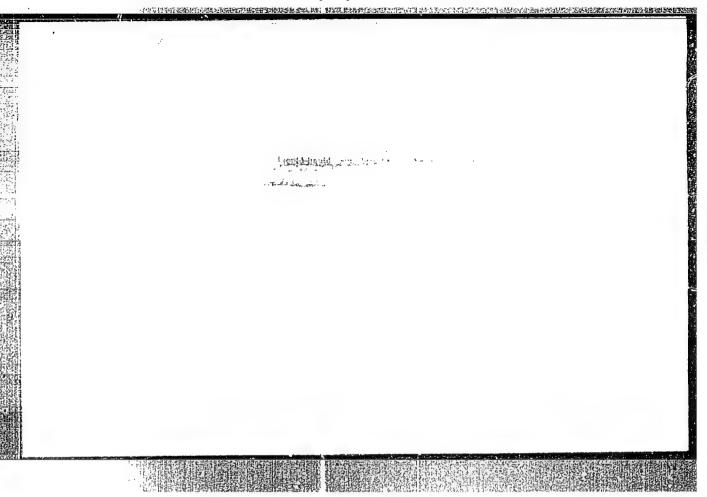
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(Dressmaking--Pattern design) (Sewing)

KORENYAKO, A.I.; KUCHXEVA. A.G.; SKRYABIN, G.K.; HEKHTEHEVA, M.N.; HIKITINA, H.I.; ARTAMONOVA, O.I.

New antibietics. Vest.AN SSSR 26 no.6:95-96 Je '56. (MLRA 9:9)
(ANTIBIOTICS)



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KUCHYNKA, K.

The mechanism of the catalytic decomposition of nitrous oxide on nickel oxide. Pts.1-2. Coll Cz Chem 30 no.3:613-628 Mr '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague. Submitted March 14, 1964.

-KUCHYNKA, K.; KLIER, K.

Admorption of oxygen on nickel oxide. Pt.1. Coll Cz Chem 28 no.1: 148-158 Ja '63.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.

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Kuchynka K

Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Praguo (for all, present address of Sajbar Repartment of Inorganic Chemistry, Jagellonian University (Satedra chemis nicorganicanej Universitata Jagiel-lonskiego), Frakow, Poland

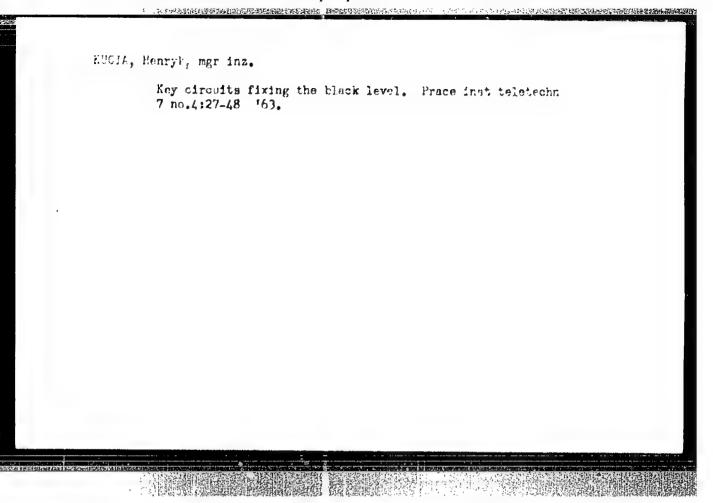
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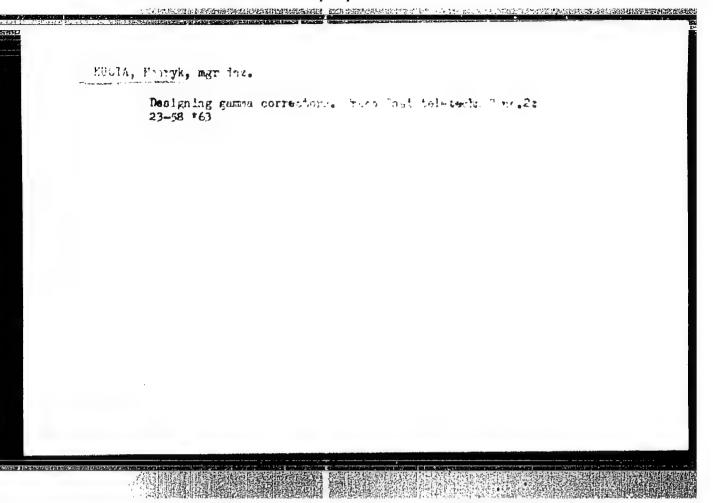
"/inotics of earbon monoxide exidation by MnOg-based eatalysts at low pressures."

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KUCHYNKA, V.; HAJEK

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18(5) AUTHORS:

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Kucia, K., Kurek, M., and Kwiatkowski, S., Engineers

TITLE:

Fracture Tests and Their Usefulness in Evaluating the

Quality of Boiler Plates

PERIODICAL:

Hutnik, 1959, Nr 7-8, pp 296-301 (FOL)

ABSTRACT:

Increasing demand for boiler plates with ever better properties have forced producers to turn out plates of increasingly better quality. The purpose of the present article is to discuss some of the modern methods of boiler plate quality con'rol. According to Soviet and Polish specifications, tests for resistance to fracture of boiler plates are made in the following way: a sample twice as wide as it is thick

for plates up to 30 mm and one and a half times as wide as it is thick for plates above 30 mm, is broken in order to establish the degree of destratification or decoherence. Samples are taken at both ends, perpen-

dicularly to the direction of rolling. According to these norms, a decoherence of up to 10 mm may be allowed at the point of fracture. Yet this method is,

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Fracture Tests and Their Usefulness in Evaluating the Quality of Boiler Plates

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not a particularly efficient one. There is also the ultrasonic method, but it has been found that it is not able to detect all cases of destratification. It was found in fact that two types of destratification exist: real and potential. The first one consists of discontinuity in a rolled product and may easily be detected by the ultrasonic method. The second variety appears when the sample is fractured and then only near its surface. This is the more interesting and dangerous type. The tensions which arise in a plate sample during fracture are :!lustrated in figure 1. The important point is that real decoherence is often due to metal impurities tur potential decoherence is rather due to metal fatigue and is much more difficult to detect. It is important therefore to distinguish between these two phenomena. The author then proceeds to recount experiments designed to discover these phenomena by metallographic analysis and to determine the effect of thermal treatment on

Card 2/4

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Fracture Tests and Their Usefulness in Evaluating the Quality of Boiler Plates

the appearance of the fracture. Tests were made on plate samples tested previously by the ultrasonic method and showing a tendency towards potential destratification. Figures 2-9 show the state of various samples during these tests. It was found that the degree of potential decoherence depends on the degree of stratification of the plate's structure, on temperature and on the speed of fracture. All factors favoring the sample's brittleness tend to decrease the extent of potential decoherence or to do away with it altogether. Stratification and hence potential decoherence may be removed by homogenization (at 1,150°C) and normalization (at 920°C). But the application of these processes simultaneously with mass production is very difficult. The above tests showed further that the stratified structure of boiler plates does not affect welding properties adversely, nor does it depreciate the mechanical properties of the plates. The same may be said of the phenomenon of potential

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Fracture Tests and Their Usefulness in Evaluating the Quality of Boiler Plates

decoherence. It is important to note that the author considers fracture tests inadequate in determining plate quality since these tests are made with samples taken at random and the fracture itself causes the appearance of further potential decoherence during breaking. According to the author, the proper method of testing the quality of boiler plates is the ultrasonic method. Finally, the author considers it imperative that all efforts be made to re-examine rolling methods in order to decrease as much as possible the stratification of plate structure. There are 2 tables, 8 photographs, 1 diagram, and 1 references, 2 of which are Soviet and 2 Polich.

ASSOCIATION:

Huta Batory (Metallurgical Plant Patory) (Kucia and Kwiatkowski) IMZ (Institute of Ferrous Metallurgy)

(Kurek)

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POL/12-20-2-4/10

£5(1,5) AUTHOR: Kurek, M., Kucia, K., and Kwiatkowski, St., Engineers

TITLE:

The Application of Ultrasonic Methods in the Investiga-

tion of Plate Laminations

PERIOUICAL:

Hutnik. 1950, Vol 26, Nr 1. pr "2-"n (Poland)

APSTRACT:

The great number of laminations in boiler and shipbuilding plates leads to special methods of investigation. So far test specimens (20 mm = 14" thick) with a notch of mm were broken. During investigation, it was decided that the sectional area test does not reveal any trend for lamination in the plates; it only shows: a) laminations already existent in the plates after rolling; b) laminations arisen by breaking the test specimens apart. The laminations described under b) have proved less harmful than those under a). There are two methods of ultra-sonic plate tests: 1) the filter method (more easily adapted for automatic serial tests); 2) the tapping method (by tapping the plates with a feeler gadget). In the Metallo-Physical Institute IMD in Gliwice, a spe-

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The Application of Ultrasonic Methods in the Investigation of Plate Laminations

cial roll-feeler gadget was designed. Figures 1 and 2 show its methods of operation Failures up to 10 mm (2/5") Ø call for oscillations, above 10 mm they shift the amplitude to the left of the vertical line. The investigation results are described by the aid of oscillographic diagrams. Hot pourings with a temperature of more than 1630°C and cold pourings with less than 1600°C were tested. The results of the various pouring groups are compiled in Table 1/ It was determined that two skilled workers can easily test 15 plates in 8 hours by the ultra-sonic method. 1) The ultra-sonic method proved to be qualified for testing laminations in plates; 2) The results during investigation have not proved any dependence between the parameters of rolling laminations and the lamination formation in the plates; 3) Considerable dependence was established between the pouring operation and the lamination formation in the plates; 4) Especially good results were achieved with graphitized pourings; b) The ultra-sonic method enables greater save

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The Application of Ultrasonic Methods in the Investigations of Plate Laminations

ings. There are 1 table, 9 photographs and 1 diagrams.

ASSOCIATION: Instytut metalurgia zelaza (Metallurgical Steel Institute); Huta Batory

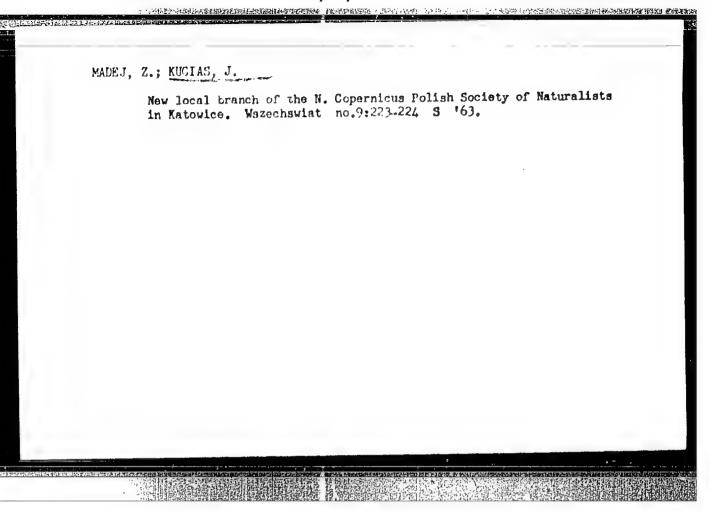
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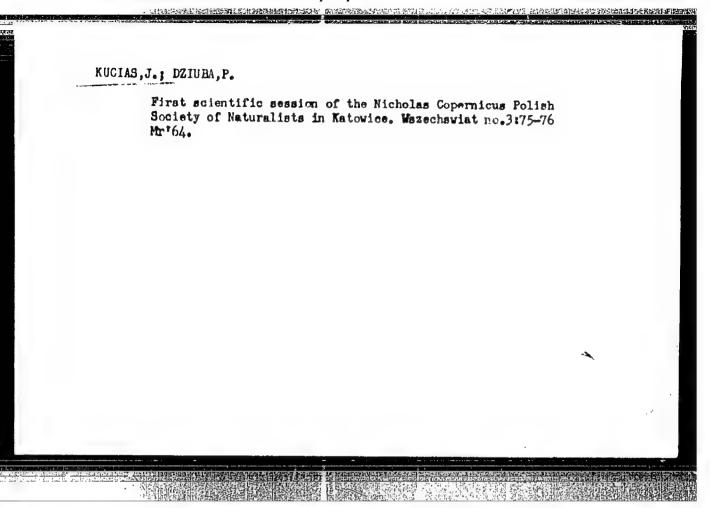
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DZIEMBALA, Henryk; KUCIARA, Boleslaw

New trends in designing coal hoppers. Koks 8 no.4:111-115 J1-Ag '63.

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STRACHOV, Ivan Pavlovic [Strakhov, Ivan Pavlovich] doktor technickych ved; KUÇIDI, D.A., inz.; BENES, Antonin [translator]

Use of methylol and methylated methylol derivatives of melamine for improvement of sole leather quality. Kozarstvi 14 no.8:232-236 Ag '64.

1. High Technological School of Light Industry, Moscow (for Strachov and Kucidi). 2. Research Institute of Leather Industry, Gottwaldov (for Benes).

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Country:	Yugoslavia Deurees: / not given/
Applicati	/ A reference
	Belgrade, Veterinarski glasnik, No 6, 1961, pp 537-539. Swentieth Anniversary of the Revolution: *A Youth in a Few Lines.*
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KEINSKI, h.

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KUCIMSKI, Tadeusz

New data concerning the geology of the so-called Rzeszow Bay. Pt. 1. Kwartalnik geol 5 no.4:1000-1001 161.

1. Karpacka Stacja Terenowa, Instytut Geologiczny, Warszawa.

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LUC IRKK J

SOV/51-5-2-7/26

AUTHOUS:

Burgova, M.P., Auchirek Ya. and Proskurina, L.

TITLE:

Anharmonicity as One of the Characteristics of Intercolecular Interaction (Angarmonichmost' kak odna iz kharaktoristik

mezhiumolabulyarnogo vauluodeystviya)

PERIODICLL: Optics i Spectroskopiya, 1958, Vol 5, Nr 2, pp 141-146 (USBR)

ABSTRACT:

It was found (Refs 1, 2) that formation of intermolecular saturated bonds (hydrogen-type bonds) are accompanied by discrete changes of vibrational frequencies. This effect was explained by a new quasiolustic constant of intercolocular interaction and a change in the quasiclastic constant of internal selecular binding which is whakened by association of molecules. The authors purpose was to find whother there might be a further sign of the presence of such intermolecular saturated bonds. They investigated how the vibrational spectrum changes on increase of anharmonicity of vibrations due to internolecular association. They measured infrared frequencies and intensities of valence vibrations of CH and OH in the region of the fundamental frequency and the two first harmonics. This was done for solutions of phenol, acetic acid and halogen derivatives of methane. The authors also used published data on the spectra of the OH group of slophols. The infrared absorption spectra were measured using a

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Anhanaphicity as One of the Characteristics of Intermolecular Interaction

Perkin-Elmor spectrophotometer 12 B with a LiF prism and a spectrophotometer with an echolette grating, prepared at the Physics Institute of the Leningrad State University. Errors in the frequency measurements did not exceed 3 cm and those in the intensity measurements were less than 10%. Figs 1-3 give the dipole moments of the hydrogen bends of several substances as functions of the vibrational quantum number v. Figs 4-5 give the absorption spectra of chloroform and bromeform pure and in solution. From the frequencies and intensities of the infrared spectra mechanical and optical anharmonicities of the X-H groups, where X = 0 or C, were obtained. It was found that formation of hydrogen bends produces characteristic changes in the optical anharmonicity. In the case of the aracteristic changes in the optical anharmonicity. In the case of weak hydrogen bends bends due to molecular association are absent in the harmonics but are present in the fundamental frequency of valence

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Anharmonicity as One of the Characteristics of Intermolecular Interaction

Vibrations. The results obtained supplement those reported by Macke (Refs 4, 5). The authors thank V.I. Chalanovskiy for advice. There are 5 figures, 1 table and 15 references, 3 of which are Soviet, 4 American, 2 Genum, 1 Japanese, 2 English, 1 French, 1 Australian and 1 from an international journal.

ASSOCIATION: Leningradskiy gosidarstvennyy universitet, fizicheskiy institut (Physics Institute, Leningrad State University)

SUBLITED: July 10, 1957
1. Molecular association--Analysis 2. Cyclic compounds--Molecular
card 3/3 structure 3. Cyclic compounds--Spectrographic analysis 4. Spectrophotometers--Equipment 5. Infrared spectroscopy--Applications

PAPOUSEK, D.; KRUSINA, J.; KUCIREK, J.

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l. Institut fur theoretische und physikalische Chemie, Haturwissenschaftliche Takultat und Physikalischanalytisches Institut, Pharmaseutische Takultat, Masarykumiversitat, Brno. (Hydrogen) (Alcohols) (Ethers)

RUCIREK, J.; PAPOUSEY, D.

Potential constants of molecules and the thermodynamic functions of CeHi, GeFi, GecTi, GeBri, and GeJi, Coll Cz Chem 25 no.1:31-37 Ja '60. (EKAI 9:12)

1. Physikalisch-analytisches Institut, Pharmazeutische Fakultat, und Institut für theoretische und physikalische Chemie, Naturwissenschaftliche Fakultat, Hasaryk-Universitat, Brno. (Germanium fluoride) (Germanium fluoride) (Germanium bromide) (Germanium bromide) (Germanium bromide) (Germanium iodides)